_ _

Chapter 1
Introduction

This is the ***ADAMS/WT 2.0 User's Guide and Reference Manual.*** It describes the current version of ADAMS/WT, an add-on package for ADAMS (Automatic Dynamic Analysis of Mechanical Systems) developed by Mechanical Dynamics, Inc. (MDI). ADAMS/WT has been developed under contract to the National Renewable Energy Laboratory (NREL) specifically for modeling horizontal-axis wind turbines. Version 2.0 includes a completely new, easier-to-use, Windows-like user interface.

ADAMS/WT is delivered in source code form and consists of a number of macro and command files for ADAMS/View, along with various auxiliary FORTRAN programs. You must have the appropriate FORTRAN compiler for your platform to use WT. ADAMS/WT 2.0 is designed to run with version 9.1 of ADAMS. Note that WT 2.0 may not be 100% compatible with future versions of ADAMS. Source code and documentation for the AeroDyn aerodynamic forcing routines from the University of Utah are also included. This release of ADAMS/WT includes version 11.02 (10/13/98) of AeroDyn. It will **not** work with pre-11.x versions of AeroDyn and maynot work with later versions..

MDI and NREL are both committed to making it easier for you to design and analyze advanced wind turbines. Your feedback on this product is <u>actively</u> sought. Please send any general comments to

> Mr. Alan D. Wright
> National Renewable Energy Laboratory
> 1617 Cole Boulevard
> Golden, CO 80401-3393
> Phone: 303/384-6928
> e-mail: alan_wright@nrel.gov

Please send reports of any functionality problems or code bugs to:

> Dr. Andrew S.Elliott
> MDI Professional Services
> 6530 E. Virginia Street
> Mesa, AZ 85215-0736
> Phone: 602/985-1557
> Fax: 602/985-1559
> e-mail: aelli@adams.com

_ _